MSKP125





Key Parameters

V _{DRM} / V _{RRM}	= 1600V
I _{T(AV)}	= 125A
ITSM	= 1900A
V _{T(TO)}	= 1.20V
rτ	= 1.90mΩ

Features

- Full blocking capability over wide temperature range
- Hard soldered joints for high reliability

- ApplicationsPower Supplies
- DC motor control
- **Controlled Rectifiers**
- AC switch

Ordering Information

MSKP	125	S	ХХ	U
Phase Control Thyristor	Current Code	Stud / Flat Base Version	Voltage Code Code X 100 =V _{DRM} /V _{RRM}	Stud Threads U = 1/2" UNF
Order Code MSKP125S16	SU : 1600V V _{DRM} ,	V _{RRM} , Stud base Thyristor v	vith 1/2" UNF threads	
		Prepared by	: ABA Date of Publication	: 25.03.2015
		Approved by	: RBS Revision	:0

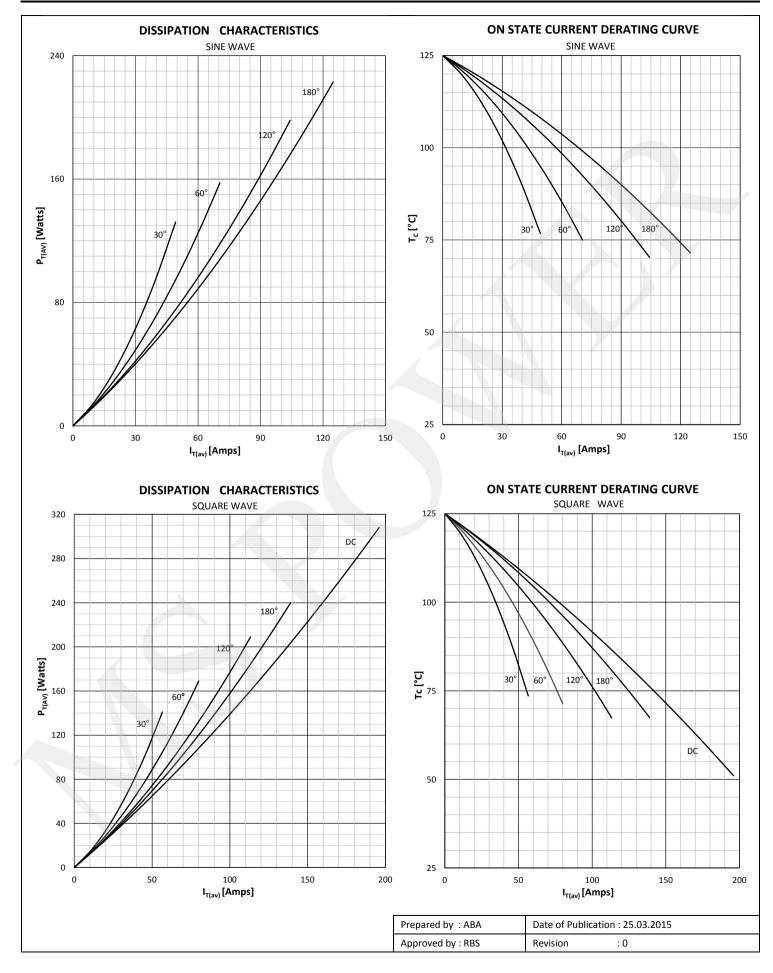
Technical Information Phase Control Thyristor



Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1700	V
V drm	Repetitive peak off-state voltage		125	200 - 1600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	25	mA
I DRM	Repetitive peak off-state current	V= V drm	125	25	mA
CONDU	CTING		-		
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =71°C		125	А
I RMS	RMS on-state current			196	А
	_	Sine wave, 10 ms	25	1900	А
I TSM	Surge on-state current	Without reverse voltage	125	1800	А
		Sine wave, 10 ms	25	18000	A²s
l² t	l ² t	Without reverse voltage	125	16200	A²s
νт	On-state voltage	On-state current = 392A	125	2.0	V
V T(TO)	Threshold voltage		125	1.20	V
rт	On-state slope resistance		125	1.90	mΩ
SWITCH di/dt	Critical rate of rise of on-state current		125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	V _{DR} = 67%V _{DRM}	125	1000	V/µs
GATE			120	1000	1/20
GAIE I _{gt}	Gate trigger current	V _D =6V	25	150	mA
V gt	Gate trigger voltage	V _D =6V	25	3.0	V
I _H	Holding current	$V_{\rm D}$ =6V, gate open circuit	25	400	mA
 	Latching current	V _D =6V	25	600	mA
MOUNT		1 ·			
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.24	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case		0.27	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.08	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Mounting torque			14	NM
W	Weight (Approx.)			200	gm

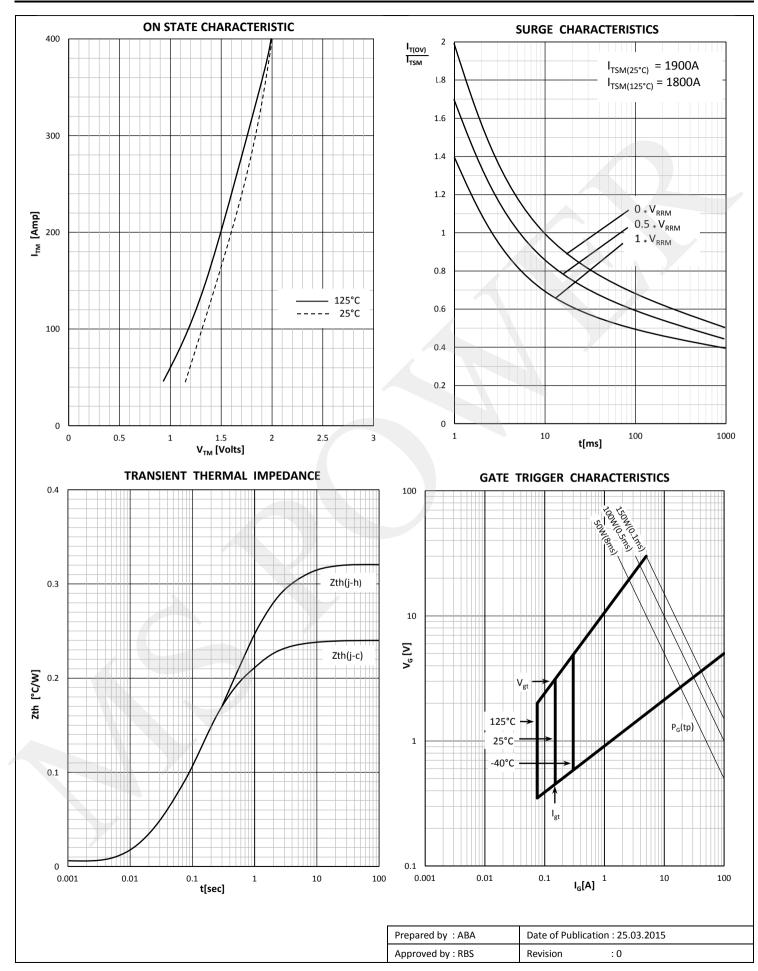
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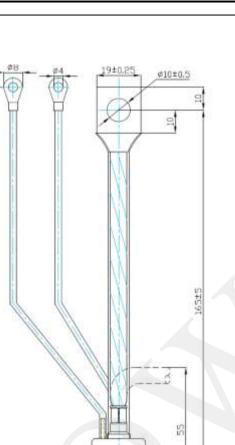
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